Math 116: Worksheet 2

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1/25/2024

- 1. $168 + 2 \cdot 66 + 36$
 - 66 = 36 + 30
 - 36 = 30 + 6
 - $30 = 5 \cdot 6 + 0$
 - $\Rightarrow \gcd(168, 66) = 6$

2.
$$6 = 36 - 30 = 2 \cdot 36 - 66 = 2 \cdot (168 - 2 \cdot 66) - 66 = 2 \cdot 168 - 5 \cdot 66$$

- 3. gcd(21390860981723987544, 394876293865982736) = 24
- 4. $13 \cdot 69 7 \cdot 128 = 1$